

**DR. A.P.J. ABDUL KALAM TECHNICAL UNIVERSITY,  
LUCKNOW, UTTAR PRADESH**



**EVALUATION SCHEME & SYLLABUS  
FOR  
B. TECH. 4<sup>TH</sup> YEAR**

**Electronics and Computer Engineering**

**Based On**

**NEP2020**

**(Effective from the Session: 2025-26)**

## B. TECH (ELECTRONICS AND COMPUTER ENGINEERING) CURRICULUM STRUCTURE

| SEMESTER- VII |              |                                                  |               |          |          |           |                   |    |       |     |              |    |            |           |
|---------------|--------------|--------------------------------------------------|---------------|----------|----------|-----------|-------------------|----|-------|-----|--------------|----|------------|-----------|
| Sl. No.       | Subject Code | Subject                                          | Learning Mode | Periods  |          |           | Evaluation Scheme |    |       |     | End Semester |    | Total      | Credit    |
|               |              |                                                  |               | L        | T        | P         | CT                | TA | Total | PS  | TE           | PE |            |           |
| 1             | BCIT701      | Cryptography and Network Security                | Offline       | 3        | -        | -         | 20                | 10 | 30    |     | 70           |    | 100        | 3         |
| 2             | B**07*       | Deptt- Elective-IV                               | Offline       | 3        | -        | -         | 20                | 10 | 30    |     | 70           |    | 100        | 3         |
| 3             | BOEM**       | Open Elective-II                                 | MOOC's        | 3        | 0        | 0         | 20                | 10 | 30    |     | 70           |    | 100        | 3         |
| 4             | BCIT751      | Cryptography and Network Security LAB            | Offline       | 0        | 0        | 2         |                   |    |       | 50  |              | 50 | 100        | 1         |
| 5             | BECZ752      | Mini Projects or Internship Assessment*          |               | 0        | 0        | 4         | -                 | -  | -     | 100 | -            | -  | 100        | 2         |
| 6             | BECZ753      | Project-1                                        |               | 0        | 0        | 10        |                   |    |       | 150 |              | -  | 150        | 5         |
| 7             | BECZ754      | Startup and Entrepreneurial Activity Assessment# |               | 0        | 0        | 4         |                   |    |       | 100 |              |    | 100        | 2         |
|               |              | <b>Total</b>                                     |               | <b>9</b> | <b>0</b> | <b>20</b> |                   |    |       |     |              |    | <b>750</b> | <b>19</b> |

\*The Mini Project or internship (5-6 weeks) conducted during summer break after VI semester will be assessed during VII semester.  
 #The Startup and Entrepreneurial Activity Assessment will be done in the 7th semester, under which a student will have to undergo a startup/entrepreneurship activity of at least 60 hours till the 6th semester

| SEMESTER- VII |              |                   |               |          |          |           |                   |    |       |     |              |     |            |           |
|---------------|--------------|-------------------|---------------|----------|----------|-----------|-------------------|----|-------|-----|--------------|-----|------------|-----------|
| Sl. No.       | Subject Code | Subject           | Learning Mode | Periods  |          |           | Evaluation Scheme |    |       |     | End Semester |     | Total      | Credit    |
|               |              |                   |               | L        | T        | P         | CT                | TA | Total | PS  | TE           | PE  |            |           |
| 1             | BOENM**      | Open Elective-III | MOOC'S        | 3        | 0        | 0         | 20                | 10 | 30    |     | 70           |     | 100        | 3         |
| 2             | BOENM**      | Open Elective-IV  | MOOC'S        | 3        | 0        | 0         | 20                | 10 | 30    |     | 70           |     | 100        | 3         |
| 4             | BECZ851      | Project-II        |               | 0        | 0        | 18        |                   |    |       | 100 |              | 350 | 450        | 10        |
|               |              | <b>Total</b>      |               | <b>6</b> | <b>0</b> | <b>18</b> |                   |    |       |     |              |     | <b>650</b> | <b>16</b> |

The Internal Assessment of MOOCs will be done by the respective institute, and the External Assessment (End Semester Examination) will be done by the University.

### Departmental Elective-IV

1. BCS070- Internet of Things
2. BCS071- Cloud Computing
3. BECZ070- Electric Vehicle Technology
4. BCS073- Design and Development of Applications